TECHNISCHE DATASHEET

AWP 618 WATER 230V

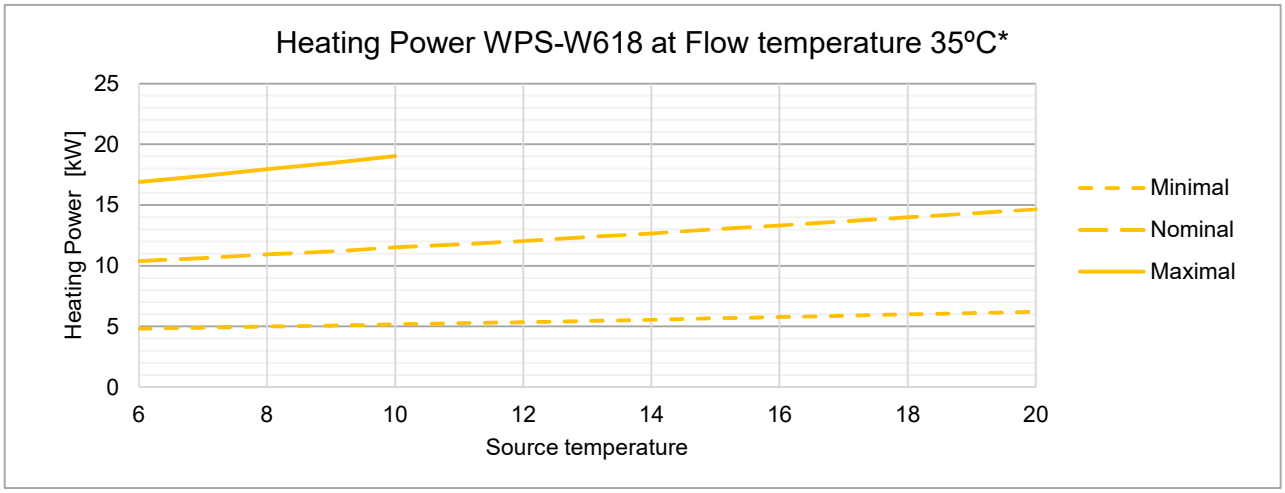
AT-TEC
WARMTEPOMPEN

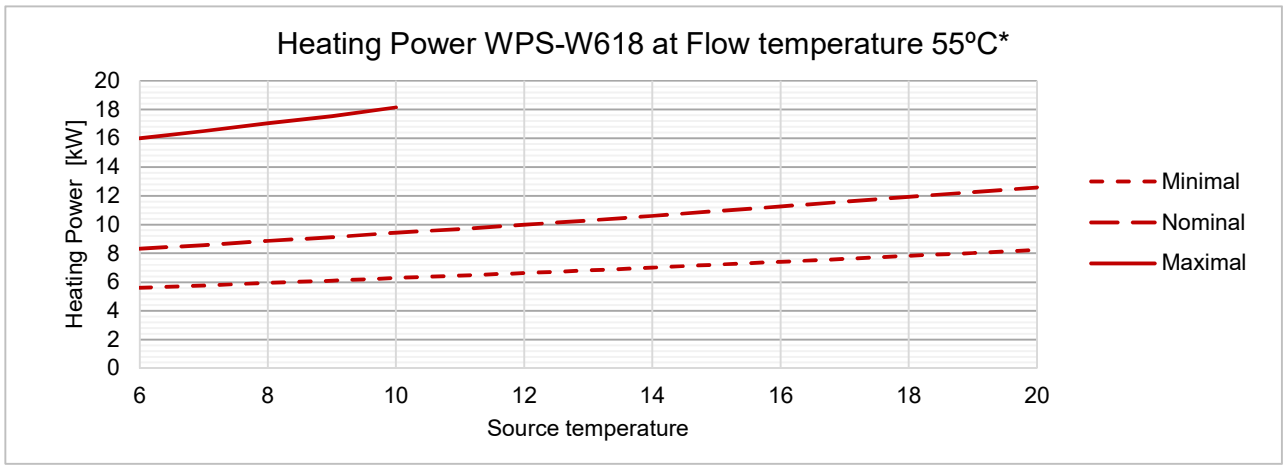
General Data		
Power Range	W10/W35: 5 - 19	[kW]
Energy class VL 35°C	A++ (from 09/2019: A+++)	[-]
Energy class VL 55°C	A++	[-]
Max. Flow temperature	62,0	[°C]
Electrical Data		
International Protection Marking	IP 20	[-]
Supply control	1/N/PE, 230V, 50Hz	[V, Hz]
Rated Input control	28	[W]
Cos(ϕ) control	0,90	[-]
Fuse control	1x B13	[-]
Supply compressor	3/N/PE, 400V, 50Hz	[V, Hz]
Operating current compressor	8,23	[A]
Staring current compressor	22 / -	[A / A]
Cos(ϕ) compressor	0,98	[-]
Fuse compressor	1x C32	[-]
Sound power level Data acc. EN12102		
Nom. Sound power level heat pump	45,5	[dB(A)]
Max. Sound power level heat pump	53,9	[dB(A)]
Refrigerant circuit Data		
Compressor - Type	Scroll	[-]
Refrigerant - Type	R410a	[-]
Refrigerant - Amount	3,8	[kg]
Refrigerant - Fluid Group	2	[-]
Refrigerant - GWP	1927	[-]
Compressor Oil - Type	3MA-POE	[-]
Compressor Oil - Amount	1,18	[l]
Heating Side		
Condenser - Type	Plate heat exchanger	[-]
Condenser - Material	Stainless steel, copper brazed	[-]
Condenser - Flowrate (5K)	3,3	[m³/h]
Condenser pressure loss	26,9	[kPa]
Circulation pump - Type	external ciculation pump	[-]
Circulation pump - residual head	-	[mWs]
Circulation pump - max. power	-	[W]
Source Side		
Evaporator - Type	Plate heat exchanger	[-]
Evaporator - Material	Stainless steel, copper brazed	[-]
Evaporator - Flowrate (3K)	4,5	[m³/h]
Evaporator - Pressure loss	30,2	[kPa]
Source - Type	external submersible pump	[-]
Source - residual head	-	[mWs]
Source - max. Power	-	[W]

Performance Data*

Operating point	Comp. speed	Heating capacity	Cooling capacity	Rated Input	COP
W10/W35	54%	11,5	9,7	1,9	6,21
W10/W35	100%	19,1	15,7	3,4	5,61
W10/W55	100%	18,2	13,0	5,2	3,52
W10/W35	Minimal	5,2	4,3	0,9	6,06
W10/W55	Minimal	6,3	4,4	1,9	3,33

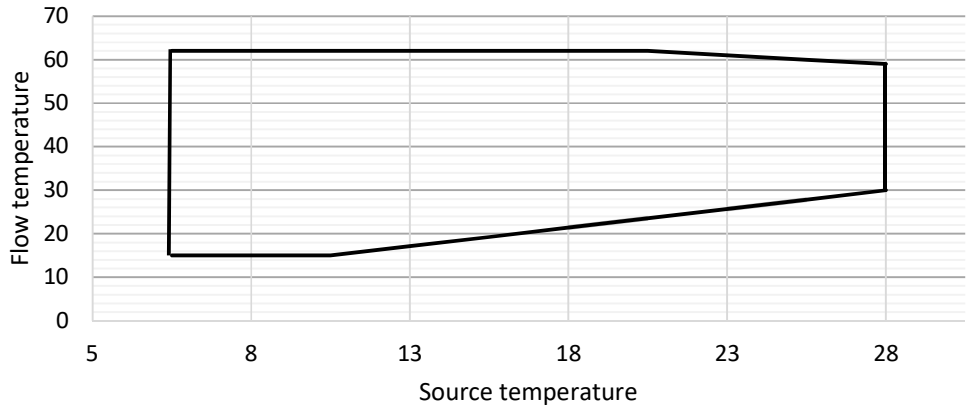
Climate: warmer	**35°C**	SCOP	6,91
		η_s	273
	55°C	SCOP	4,86
		η_s	191
Climate: average	**35°C**	SCOP	6,63
		η_s	262
	55°C	SCOP	4,96
		η_s	195
Climate: colder	**35°C**	SCOP	6,58
		η_s	260
	55°C	SCOP	5,21
		η_s	205





* Compressive performance deviations of up to 10% are possible. All informations without guarantee: typographical and printing errors reserved.

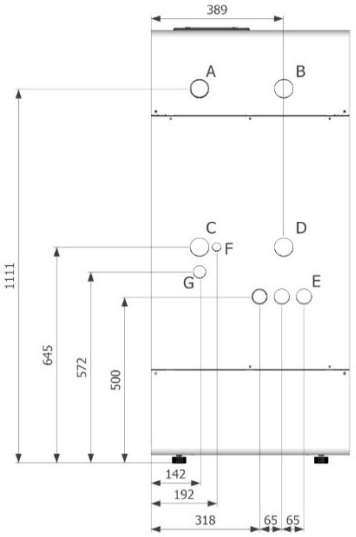
Operating limit



Connection measurements

Heat Pump Dimensions (H x W x D)	[mm]	1.350 x 600 x 650
Heat Pump Weight	[kg]	174

A: Source Inlet, G1" MT
B: Heating Outlet, G1" MT
C: Source Outlet, G1" MT
D: Heating Inlet, G1" FT
E: Electrical Inlet
F: not in usage
G: not in usage



Free spaces

A: 400mm
B: 400mm
C: 200mm
D: 600mm
E: 400mm